

XGA and SXGA+ dual lamp rear screen video wall display projectors

RPMX-D132U | RPMSP-D132U | RPMSP-D180U



Your partner for high-performance video wall displays

You expect quality. You need an effective solution that works reliably 24/7, no questions asked. For more than 30 years, Christie has been manufacturing high performance rear projection video wall engines and display systems that allow you to maximize your efficiency and response time when monitoring or managing critical real-time information and situations.

Great for video wall upgrades without having to replace the entire system, Christie's rear screen video wall display projectors are the engines that drive high performance video walls. Christie's video wall projectors are purpose-built for 24/7 data monitoring environments and come in a wide range of resolutions and display sizes.

CHRISTIE®



▲ Madrid Airport

◀ Massachusetts Bay Transit Authority

Benefits of Christie rear projection technology

Purpose-built for high performance

Image	Ultra high contrast, view-ability and display performance
	DLP® technology for best data and video imaging
	Comprehensive color adjustment features for exact color matching between projectors
	Integrated 6 axis adjustment system for precise geometry alignment
Flexibility	Numerous configuration options depending on resolution and brightness requirements
	Multiple lens types to support various screen technologies, including large screen sizes
	Hot swappable automatic lamp changer to minimize interruption upon a lamp failure
	Specialty color and brightness management features for best matching across multiple displays
	Built-in edge blending for seamless tiling applications
	Accommodating display screen sizes ranging from 50" to 120"
	Extensive and easy-to-use projector control capabilities
	Constant diagnostic monitoring

Purpose-built for overall low cost of ownership

Extremely long life lamps and redundancy feature save time and money
Extremely high system reliability (MTBF)
Modular design for minimal downtime if a repair is required
Designed for long term use and performance. No need to replace in a few years.
The best pro-rated lamp warranties – not only for the original lamps supplied, but also for replacement lamps

Purpose-built for reliability

Utilizing the best technologies to ensure high reliability and long useful life
MTBF of over 63,000 hours (based on actual field results of earlier lower brightness version)
1-chip DLP® technology offers superior images and long life stability
Dust-free sealed optics protect key optical components from even the smallest particles

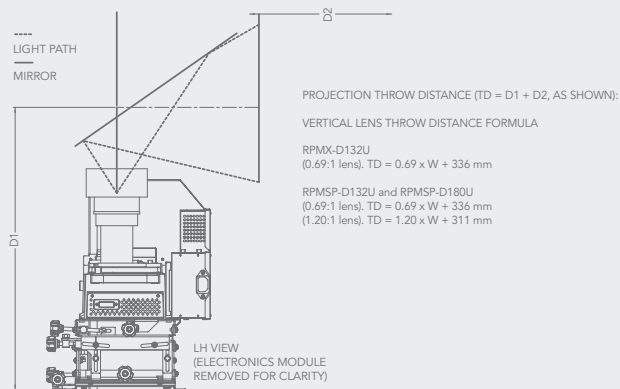
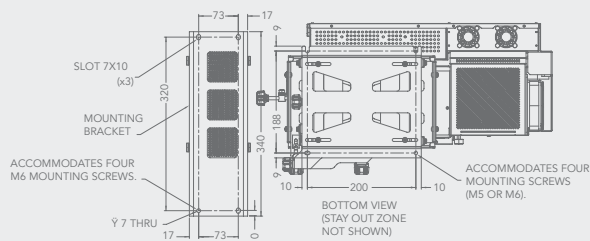
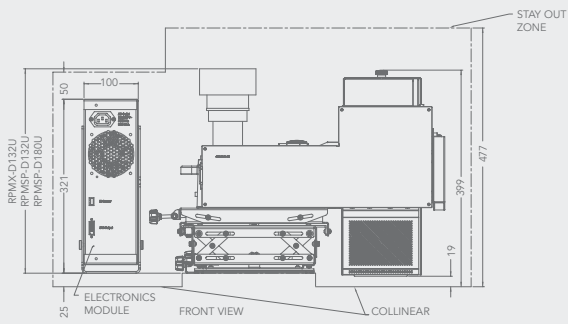
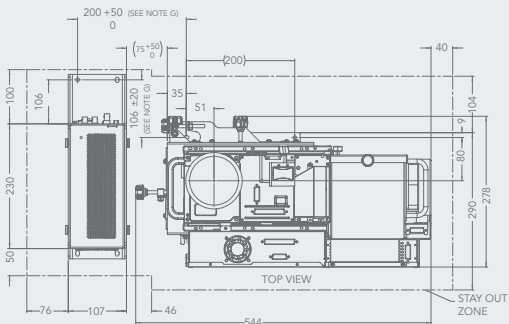
Technical specifications

		RPMX-D132U	RPMSP-D132U	RPMSP-D180U
Recommended application		• Rear projection video walls with screen sizes from 50-70" diagonal, each at XGA resolution	• Rear projection video walls with screen sizes from 50-70" diagonal, each at SXGA+ resolution	• Larger rear projection video walls with screen sizes from 67-120" diagonal, each at SXGA+ resolution
Technology	imaging	• 1-chip DLP®, Dark Chip	• 1-chip DLP®, Dark Chip	• 1-chip DLP®, Dark Chip
	native resolution	• XGA (1024 x 768)	• SXGA+ (1400 x 1050)	• SXGA+ (1400 x 1050)
	illumination	• Dual (redundant) UHP (120/132W)	• Dual (redundant) UHP (120/132W)	• Dual (redundant) UHP (160/180W)
Inputs	standard	• 5-BNC: RGBHV/YPbPr • DVI-I (digital/analog, RGB/YPbPr, HDCP) • Composite video, S-video		
	scan rates	• Horizontal: 15-120kHz • Vertical: 23.97-150Hz • Pixel clock: 210 MHz		
	expansion	• One expansion slot for adding input modules		
	optional modules	• RGB 400 active loop-through input module • Dual SD/HD-SDI input module • DVI input module		
	compatibility	• All Christie display wall controllers • Compatible with VGA through to QXGA • Separate, composite sync and sync-on-green compatible, accepts composite video, S-video (Y/C), component video (YUV) and HDTV (YPbPr) • Accepts and displays all currently known HDTV formats (1080i, 720p, 576i/p, 480i/p)		
Output display	compatibility	• SXGA+ models can also operate in native SXGA mode		
Color	temperature range	• 3200-9600K		
	processing	• True 10-bit digital color processing • 13-bit color correction		
	adjustment and control	• Comprehensive Color Adjustment (CCA™) for true color matching		
Optical	lens types¹	• 0.69:1 low distortion, zero offset	• 0.69:1 and 1.2:1 low distortion, zero offset	
	screen size range	• 50-100" diagonal (up to 120" diagonal for RPMSP-D180U with 1.2:1 lens)		
	brightness uniformity	• 90% • Brightness Uniformity Control provides up to 100% uniformity capability for critical applications		
Control/networking	ports/controls	• 2 RS-232 ports and 1 RS-422 port • Field upgradable software via RS-232 network or Ethernet • IR remote control • GPIO port • On-board ChristieNET™ connectivity (RJ45)		
Upgrade-ability	software	• KoRE™ 10-bit librarian communication software for field upgrade of firmware		
Compatibility	cubes and video walls	• All models compatible with standard Christie CC50-2301 (50") cubes and CC67-3001 (67") cubes • SXGA+ models compatible with Christie CK series 70", 80", 84" and 100" video wall systems		
Optional Accessories	inputs	• See optional input modules above		
	other	• Wired remote control • Service manual • Warping module for SXGA+ models		
	retrofit kits	• Retrofit kits available for upgrading existing video walls with newer light engines		
Physical characteristics	dimensions	• See included line drawings		
	weight (approximate)	• 52lb (23.6kg) • Shipping weight: 60lb (27.2kg)		
Environment	operating temperature⁵	• 5-35°C (40-95°F)		• 5-30°C (40-86°F)
	non-operating temperature	• -20-50°C (-4-122°F)		• -20-50°C (-4-122°F)
	humidity	• 20-80% non-condensing		
	altitude	• 0-3000m (0-10,000ft)		
Power requirements	voltage	• 100-240 VAC ±10% @ 50/60Hz	• 100-240 VAC ±10% @ 50/60Hz	• 100-240 VAC ±10% @ 50/60Hz
	current	• Rating: 2.4A @ 100V, 1A @ 240V	• Rating: 2.4A @ 100V, 1A @ 240V	• Rating: 2.95A @ 100V, 1.21A @ 240V
	consumption	• 240W	• 240W	• 276W
	dissipation	• 820 BTU/hr	• 820 BTU/hr	• 1025 BTU/hr
Reliability and serviceability	MTBF	• Projector: 63,000 hrs – excluding lamp (calculated based on actual field data of original D120U model using same projection platform) • Color Wheel: air bearing type – 50,000 hrs		
	MTTR	• <15 minutes with modular design • <5 minutes for lamp		
Calibration		• All units are factory calibrated for best color performance • Auto-calibration of lamp occurs upon lamp replacement		
Limited warranty		• Limited 2 years parts and labor (excluding lamp) • Lamp – pro-rated for original lamps and all service replacements lamps • Contact an authorized Christie representative for full details of our limited warranty		
Additional features		• Integrated 6-axis adjustment system for precise geometry alignment • Full-function remote keypad with easy-to-use menu system • Multiple set up memories to manage multiple input sources • Picture-in-Picture capability • Control and status monitoring over IP • Adjustable lamp power • Extensive scaling capability • Built-in edge blending capability on SXGA+ models • Optional image warping capability		

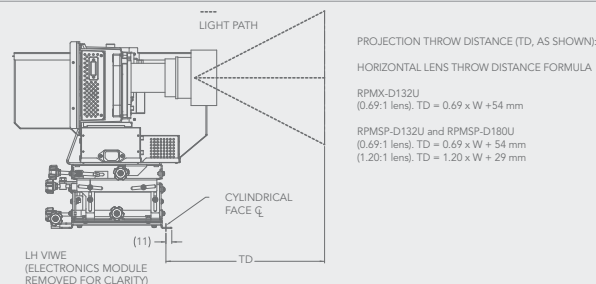
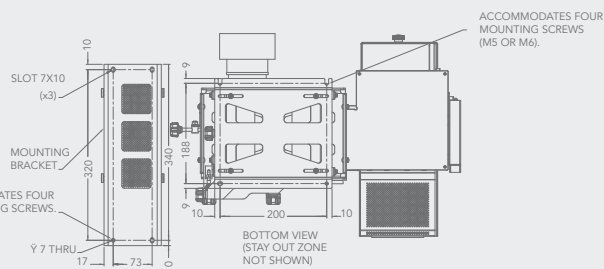
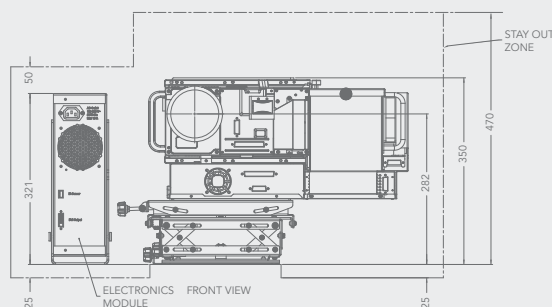
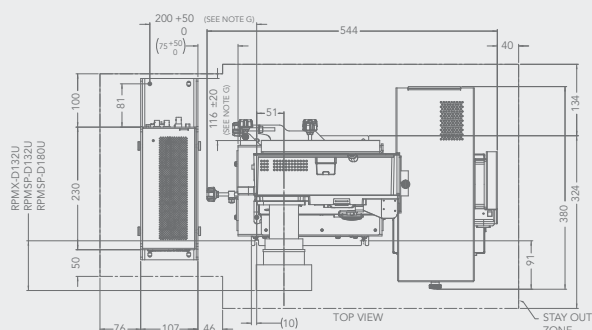
	Operating mode	Brightness (ANSI lumens)	Lamp power	Lamp life³	White boost	Color matching performance	Color wheel⁴	Contrast ratio²
RPMX-D132U (XGA)	max bright	• 1100 max., 995 typ	• 132W	• 6000 hrs	• On	• Reduced	• 4 segment (RGBW)	• 2700:1 FF 550:1 ANSI
	eco	• 585 max., 510 typ.	• 120W	• 10,000 hrs	• Off	• Best		
RPMSP-D132U (SXGA+)	max bright	• 1350 max., 1175 typ.	• 132W	• 6000 hrs	• On	• Reduced	• 4 segment (RGBW)	• 2100:1 FF 700:1 ANSI
	eco	• 645 max., 560 typ.	• 120W	• 10,000 hrs	• Off	• Best		
RPMSP-D180U (SXGA+)	max bright	• 1565 max., 1420 typ.	• 180W	• 6000 hrs	• N/A	• Best	• 6 segment (RGBRGB)	• 2200:1 FF 640:1 ANSI
	eco	• 1385 max., 1260 typ.	• 160W	• 7000 hrs	• N/A	• Best		

¹Nominal lens throw ratio shown. Actual throw distance may be within 5% of nominal value. Contact your Christie representative for details. ²Maximum contrast ratios are shown. The contrast ratio specified is the "natural" contrast ratio measured by both full field and ANSI methods. Such values are critical for proper contrast performance assessment – especially for video walls and data display walls. These values are not based on utilizing "dynamic" enhancements which are primarily designed for individual video displays whereby brightness may be affected. Contrast ratios and brightness specifications shown are based on the 0.69:1 lens. Small variances may exist with other lens types. ³For UHP (Mercury) lamps, expected lamp life is based on lamp manufacturer's rating. Typical expectation is that greater than 50% of lamps will reach lamp life rating when operated as specified. ⁴The RPMSP-D180U utilizes an exclusive 6 segment color wheel with superior color performance and color matching at maximum brightness settings. The RPMX-D132U and RPMSP-D132U utilize a standard 4 segment color wheel with a white segment to enable higher brightness. The white segment may be disabled from display use which will enable best color matching ability. ⁵For best long term performance and reliability, Christie recommends that all electronic equipment, such as projection systems, to regularly operate at temperatures below 25°C (77°F).

Vertical lens configuration



Horizontal lens configuration



Notes: A. Dimensions in brackets are for reference only B. Dimensions are millimetres C. Adjuster is in neutral position D. Stay out zone required for air flow, adjuster range, cable routing and service E. Projection distance tolerance $\pm 1.5\%$ F. The electronics module is shown in nominal position relative to projector's body it can be relocated to the left up to 50, and ± 20 mm back and forth from nominal position

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